

**NEW YORK STATE DEPARTMENT OF HEALTH
PUBLIC WATER SYSTEM ANNUAL INSPECTION**

Vails Grove
WATER SYSTEM
Vails Grove Coop., Inc.

2. MAILING ADDRESS
RD #2 Brewster, New York 10509

(PWSO)

P1119

P1120

P1121

NAME
3. PWS IN CHARGE OF
Agency: Vails Grove Coop., Inc.
Person: John W. Lohrfink
Title: Chairman
Telephone No.: 914/669-5487; 965-8214

STREET CITY STATE ZIP CODE
4. CHIEF OPERATOR
Name: George Norton
Cert. No.: 6000 SEE WESTCHESTER
Telephone No.: 914/669-5100 WHEREABOUTS FOR
Emerg. Telephone No.: 914/CR 7-3707 LOCATION

5. PROG. STATION NO. TYPE 6. CO. 7. LAST INSP. DATE 8. INSPECTION DATE
010 A 12 1 0 0 19 PUTNAM 31 37 43 09 07 17 48 53 08 31 7 8 58
CODE County Source Month Day Year Month Day Year Month Day Year

9. OWNERSHIP 10. SEASONAL OR PART-TIME OPERATION 11. VARIANCE OR EXEMPTION
63 1=Public 2=Private 68 Month Day Year 73 TO 78 Month Day Year 83 88 Total Days 95 2 1=Yes 2 No

12. POPULATION SERVED 13. NUMBER OF SERVICES 14. NO. OF SUPPLIERS 15. PERCENT OF CUSTOMERS METERED
100 5 0 0 106 111 1 7 3 115 127 Industrial 0 0 0 135
(Exclude Service to other Purveyors) 155 GPD 200 1 0 GPD 215 Commercial Residential

16. AVERAGE DAILY PRODUCTION 17. AVERAGE DAILY CONSUMPTION 18. MAXIMUM DAY PRODUCTION
140 2 5 6 0 0 GPD 155 GPD 170 6 5 2 0 0 GPD

19. PRODUCTION CAPACITY 20. PRODUCTION CAPACITY ON AUXILIARY POW 21. DISTRIBUTION STORAGE
185 1 4 4 0 0 0 GPD 200 1 0 GPD 215 5 5 0 0 0 GAL

22. PLANT TYPE 23. OPERATOR GRADE 24. INTERSTATE CARRIER 25. IS THIS MONITORED AS A
230 3 (A,B or C) 235 IIIIB Required 241 IIIB Actual 247 2 1=Yes 2>No CONSECUTIVE SYSTEM
252 2 1=Yes 2>No

26. SOURCE OF SUPPLY (Enter, number of each) 27. WATER PURCHASED FROM PROG. CODE STATION NO.
257 0 Surface 262 0 3 Ground 258 0 Purch. Name 273 280

28. SAFE YIELD 29. NUMBER OF TREATMENT FACILITIES
292 1 2 5 2 8 0 GPD 327 0 0 1

30. TREATMENT PROVIDED: 1=Yes, 2=No

1. Chlorination	2. Sand Filtration	3. Lime Softening	4. Activated Carbon	5. Ozone Treatment	6. Reverse Osmosis	7. Ion Exchange	8. Ultraviolet	9. Distillation	10. Boiling	11. Sedimentation	12. UV	13. Aeration	14. Chloramine	15. Chlorine	16. Chloride	17. Chlorite	18. Chlorite	19. Chlorite	20. Chlorite	21. Chlorite	22. Chlorite	23. Chlorite	24. Chlorite	25. Chlorite	26. Chlorite	27. Chlorite	28. Chlorite	29. Chlorite	30. Chlorite	31. Chlorite	32. Chlorite	33. Chlorite	34. Chlorite	35. Chlorite	36. Chlorite	37. Chlorite	38. Chlorite	39. Chlorite	40. Chlorite	41. Chlorite	42. Chlorite	43. Chlorite	44. Chlorite	45. Chlorite	46. Chlorite	47. Chlorite	48. Chlorite	49. Chlorite	50. Chlorite	51. Chlorite	52. Chlorite	53. Chlorite	54. Chlorite	55. Chlorite	56. Chlorite	57. Chlorite	58. Chlorite	59. Chlorite	60. Chlorite	61. Chlorite	62. Chlorite	63. Chlorite	64. Chlorite	65. Chlorite	66. Chlorite	67. Chlorite	68. Chlorite	69. Chlorite	70. Chlorite	71. Chlorite	72. Chlorite	73. Chlorite	74. 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file

NEW YORK STATE DEPARTMENT OF HEALTH
DIVISION OF SANITARY ENGINEERING
INSPECTION OF COOLED WATER SUPPLY

Owner of Water Supply & P.O. Address

MAILS GROVE WOP., RFD#2 Brewster NY 10509

Tenant (if not owner) City, Town, Village County Zip Name and Title of Person in Charge

North Salem or West. 105 George Norton

Latitude Longitude User of Water Gallons used per day Station Source No.

WATER SOURCE North West Geological Character of Surrounding Area PH2C PH2D PH2E PH2F PH2G

Well (3)

Depth of well 50 ft / 280 ft.

Type of cover

Dug

Diameter of well 6 6 in.

Type of curb

Depth of casing 20 20 ft.

Type of casting steel

Drilled

Top of well above ground surface water

Well seal type sanitary

Height above flood level 0 depth

Type of pump submersible

Driven

Well yield/ft. draw down 134/53 gpm

Pump Capacity 1000 gpm

2 booster pumps 15HP 250 gpm each

Sealing

Type of curb

Stone

Yes No

Remarks

Level

Tight cover 3 sides

Recently laid 3300 ft. of pvc transmission

Moderate

Curb seals out surface water

Steep

Surface water diversion ditches

Fenced

STORAGE Type Capacity Tight Cover

Underground (three 13)

20,000 gal. 55,000 gal.

Yes No

TREATMENT

Softening

Chlorination

Type of Equipment hypochlorite

Corrosion Control

yes no

Chlorinator capacity

Other (describe)

Daily Report

Volume of water treated

Spare Chlorinator

Volume of chlorine added 2 gal.

Spare Parts

Strength of chlorine solution 1/2 - 1/4

Test Kit

ppm available residual chlorine (approx) 8 mg/l

Stock chlorine solution available 100%

WATER TREATMENT

Method 1/4 in.

Describe A. Interruption - like notable water system (lines)

Water Flow 2-6 ft. in.

B. cross-connections with unlicensed equipment

Pressure range 63 to 90 psi

C. potential introduction of bacteria (e.g. equipment, etc.)

Type of pipe PVC 100 ft.

none

WATER TREATMENT

Method 1/4 in.

descriptions

Water Flow 2-6 ft. in.

Pressure range 63 to 90 psi

Type of pipe PVC 100 ft.

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Water

In accordance with present New York State Department of Health and the Department of Environmental Conservation requirements, the following minimum standards are proposed:-

PJW/MHS
CO
**WATER
SYSTEM
REQUIREMENTS**

A. Population To Be Served

At present, a maximum of 171 houses can be occupied. Allowing for a family size of 3.6 persons per household (1970 census family size in Putnam County), the system would be required to service 615 people.

B. Water Consumption

Average daily water consumption in Putnam County (as indicated in the Comprehensive Water Study for Putnam County) is placed at 75 gal. per capita. Thus, to supply 171 cottages requires a supply of 46,100 gal. It is proposed to provide a minimum of one day's storage by pumping over a twelve hour period. This requires that the sources of supply be capable of delivering 71 gal. per minute over a 12 hour period.

C. Sources of Supply

During the summer of 1970, three wells were drilled by P.F. Beal & Sons on the westerly side of Route 124. These are indicated on the attached map. Well No. 3 is centrally located to the distribution system, but is located less than the

Howard A. Kelly Jr. AIA

required separation distance from surrounding sewage disposal areas. For this reason, it has been abandoned. Wells No. 1 and No. 2 are located on the north end of the property in the area designated as "Spring Meadows." Well No. 1 is 343 ft. deep and consists of 20 ft. of 6 inch steel casing, while Well No. 2 is 280 ft. deep consisting of a 20 ft. 6 inch casing.

The estimated yield of Wells No. 1 and 2 was fifty gallons per minute. An additional test well (No. 4) has been driven to provide additional capacity.

To assure the adequacy of the wells, pumping tests were undertaken on May 17th and 18th, 1972. The pumping tests were undertaken simultaneously to assure that the total water supply available after prolonged pumping would satisfy the demands. The attached figures indicate the pumping rates of Well No. 1, No. 2 and No. 4 and a composite pumping rate of all the wells. Data has been summarized in the tabulation below:

P.O. CO.
P.O.

PJ CO.

	<u>WELL</u>	<u>WATER LEVEL</u>	<u>YIELD</u>
WE 3062	No. 1	65 ft.	13 gal. per min.
WE 3064	No. 2	240 ft.	34 gal. per min.
WE 3065	No. 4	165 ft.	<u>53 gal. per min.</u>
PJ 120	Total all wells -----		100 gal. per min.

D. Storage Requirements

Under current operations storage tanks are located off site and will not be available for future use, thus new storage will be required. We have proposed to provide storage in the amount of a day's average demand of 50,000 gallons.

It is proposed to use Well No. 1, which has an existing pump house and a 1000 gallon storage facility as a stand-by unit. To satisfy daily demand, however, Wells No. 2 and 4 with a firm pumping capacity of 87 gallons per minute will be able to deliver required average daily flows in a ten hour pumping period. The system, however, will not provide for fire protection.

E. Proposed Improvements

It is proposed that the improvements contemplated for the Vails Grove Cooperative, Inc. water system would be undertaken in stages. Initially, the system would utilize the existing sources of supply on the easterly side of Route 117 until such time as new facilities developed in subsequent stages were placed into service.

VAILS GROVE COOPERATIVE, INC.
PROPOSED WATER SYSTEM

DESIGN SUMMARY

PW

A. AVERAGE DAILY FLOW

46,100 gallons per day, 32.0 gallons per minute; 1,920.8 gallons per hour

B. PEAK DAY

2 x average = 92,200 per day; 64 gallons per minute;
3,841 gallons per hour

C. PEAK HOUR

6 x average = 11,524.8 gallons per hour; 192 gallons per minute

D. STORAGE

Storage tanks shall provide for a full day's storage. Use two (2) 25,000 gallon tanks, for a total of 50,000 gallons per day.

E. WELLS

P 1120
~~P 1121~~
~~P 1124~~ P 1121
~~P 1125~~

Wells No. 2 and No. 4 yield 87 gallons per minute; 125,280 gallons per day; 5,220 gallons per hour.

~~P 1123~~ P 1119

In addition, Well No. 1 has a yield of 13 gallons per minute; 780 gallons per hour; 1,820 gallons per day, which, along with a 1,000 gallon stand-by tank will be used for storage purposes.

F. DISTRIBUTION

Main size -- 6" a.c.p. water mains

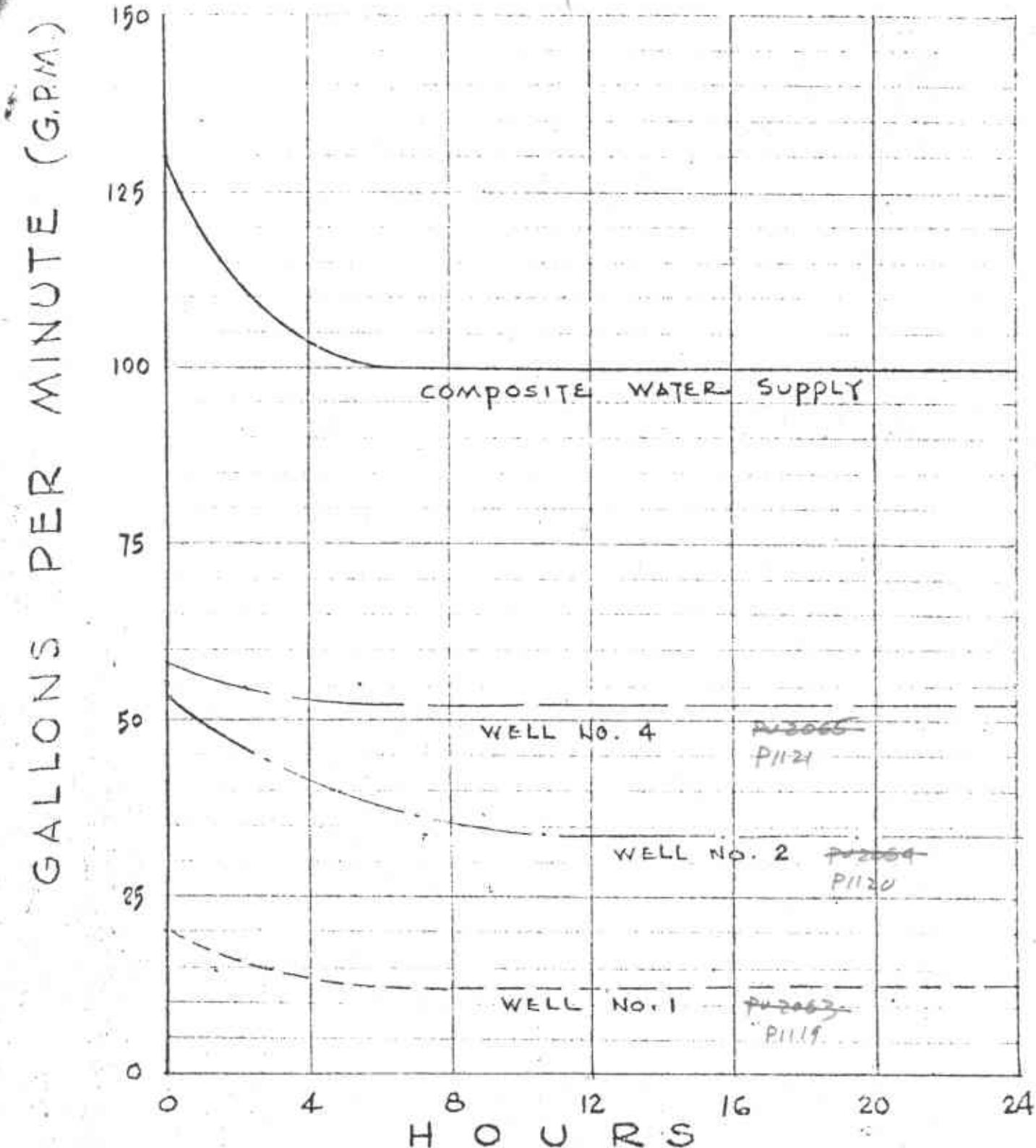
G. WATER PRESSURE

The system will be pressurized so that the minimum water pressure shall be 20 p.s.i.

Howard A. Kelly Jr. *Architect*

VAILS GROVE WATER SUPPLY

P.O. CO.



DATE	TIME	PUMP RATE
MAY 17	10 A.M.	130 G.P.M.
MAY 17	4 P.M.	100
MAY 17	10 P.M.	100
MAY 18	4 A.M.	100
MAY 18	10 A.M.	100

HOWARD A. KELLY, JR.
ASSOCIATES

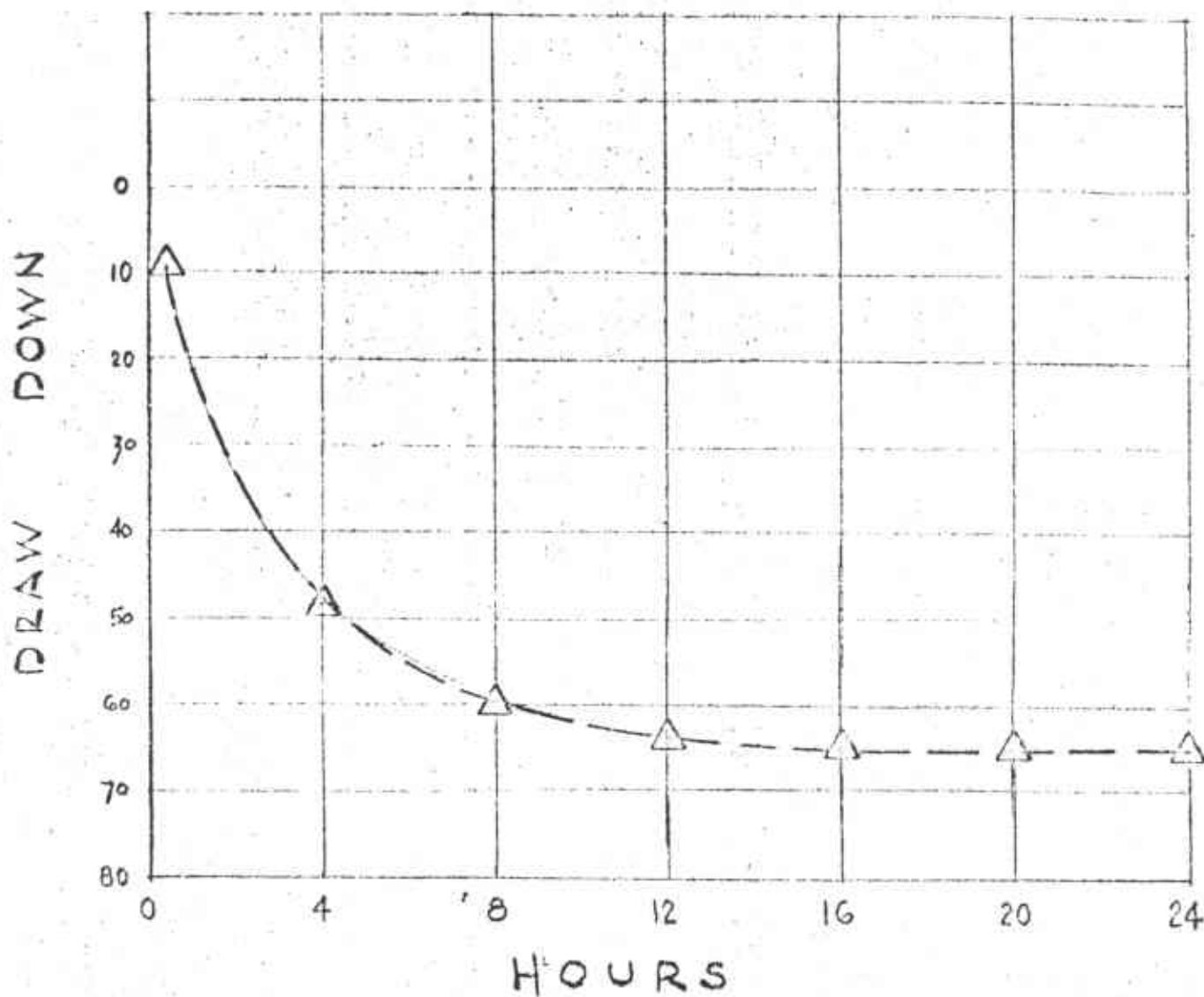
VAIL GROVE WATER SUPPLY

WELL No. 1

PC

~~YES~~ 2063

P1119



DATE	TIME - HOURS	LEVEL	PUMP RATE
MAY 17	10 A.M.	0	10'
MAY 17	2 P.M.	6	20 G.P.M.
MAY 17	10 P.M.	12	12
MAY 18	4 A.M.	18	12
MAY 18	10 A.M.	24	13

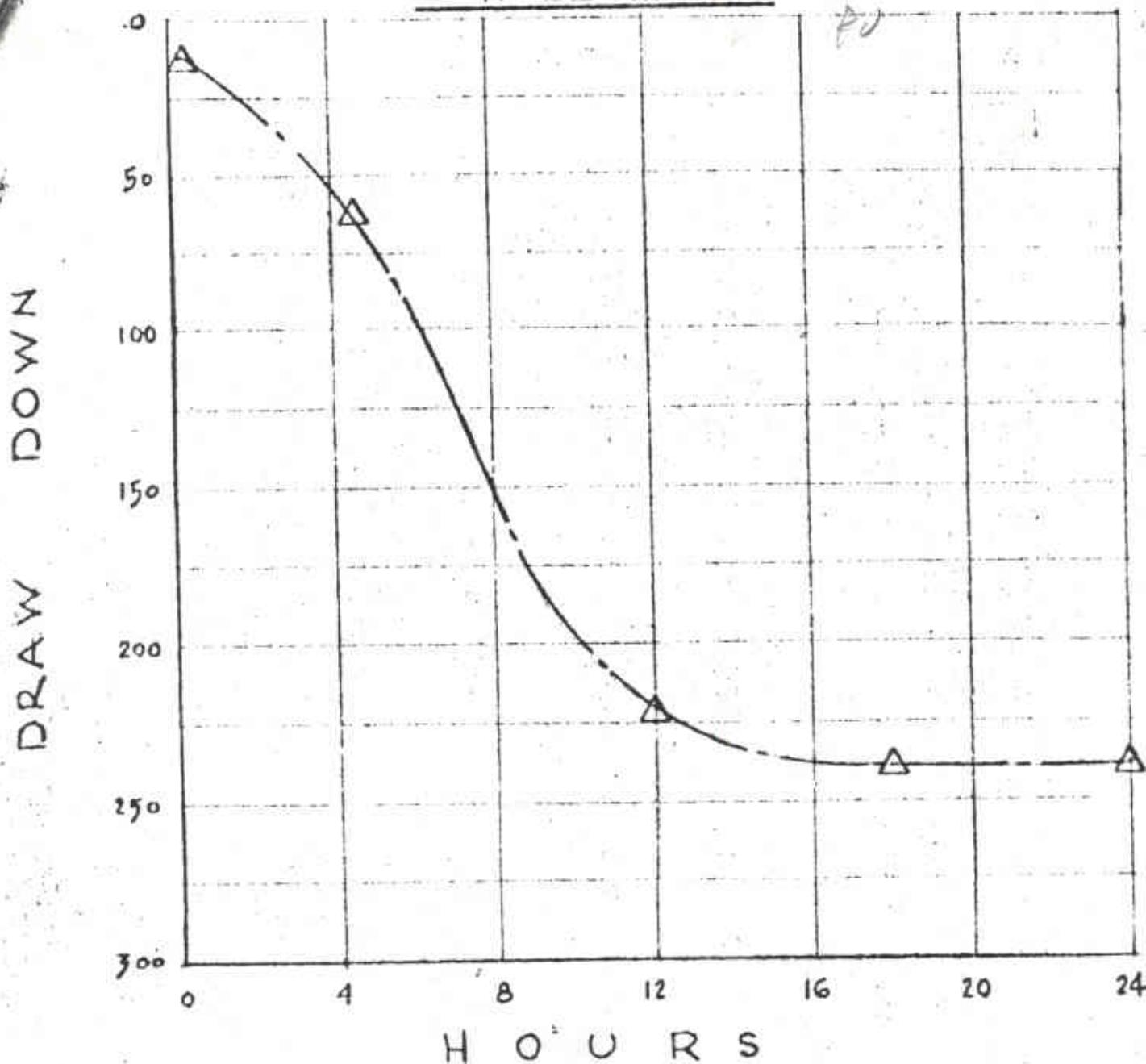
Howard A. Kelly, Jr.
ASSOCIATES

VAILS GROVE WATER SUPPLY

WELL NO. 2

~~EE 2064~~

P1120



DATE	TIME - HOURS	LEVEL	PUMP RATE
MAY 17 10AM.	0	14'	53 G.P.M.
MAY 17 4 P.M.	6	60'	34
MAY 17 10 P.M.	12	225'	34
MAY 18 4 AM	18	240'	34
MAY 18 10 AM.	24	240'	34

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VAILS GROVE WATER SUPPLY

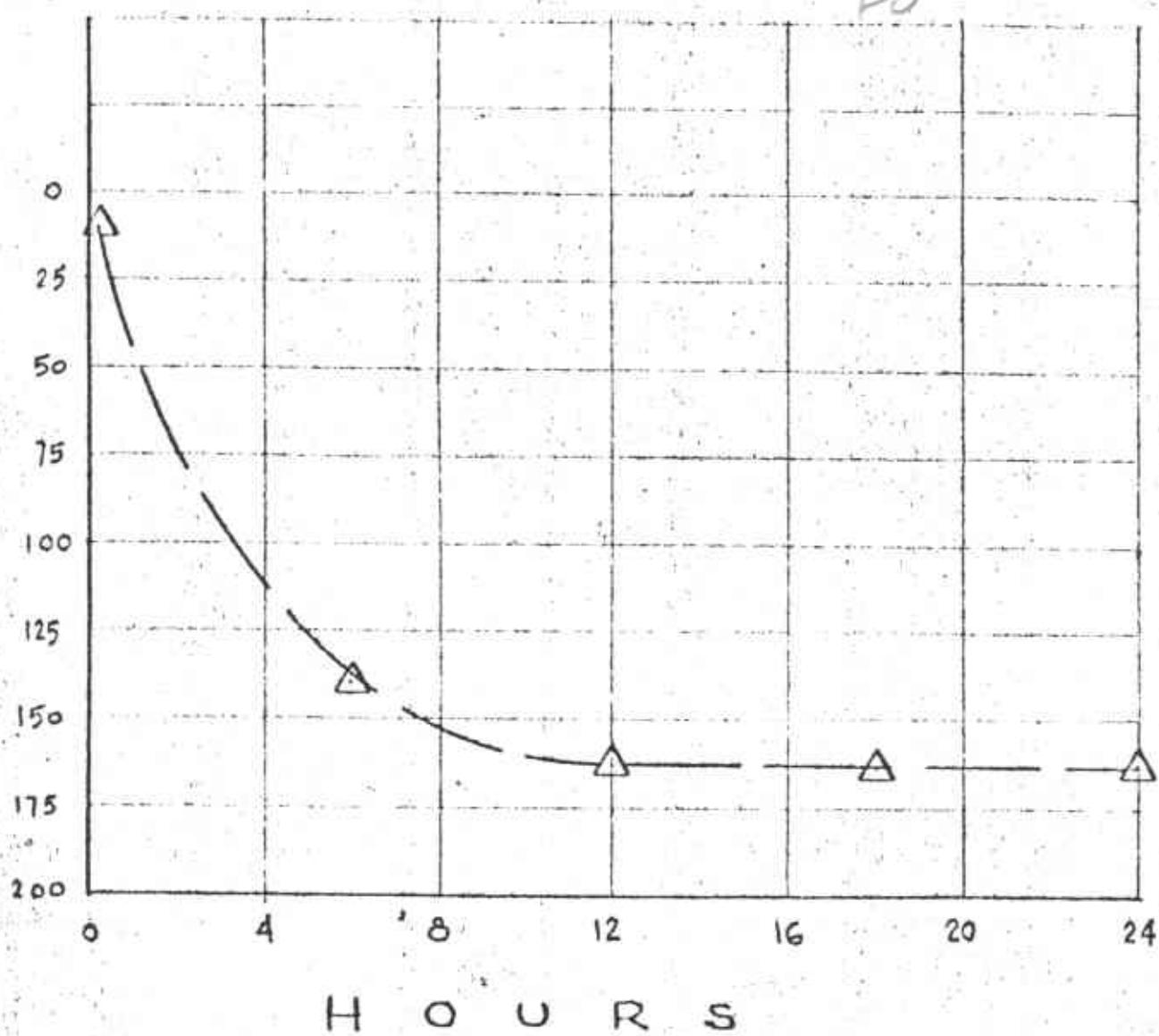
WELL NO. 4

~~WE 2065~~

P1121

DJ

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D
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P
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A
I
W



DATE	TIME - HOURS	LEVEL	PUMP RATE
MAY 17	10 A.M.	0	8'
MAY 17	4 P.M.	6	57 G.P.M.
MAY 17	10 P.M.	12	53
MAY 18	4 A.M.	18	53
MAY 18	10 A.M.	24	53

HOWARD A. KELLY, JR.
ASSOCIATES

P. F. BEAL & SONS, INC.

4 PUTNAM AVENUE

BREWSTER, NEW YORK 10509

TERMINAL WELLS
WELL SCREENED WELLS
WATER SYSTEMS
WATER SOFTNERS
WATER CONDITIONING EQUIPMENT

JET PUMPS
SUBMERSIBLE PUMPS
SUCTION PUMPS
CELLAR DRAINERS
MOTORS-TANKS-BELTS-ETC.

Established 1891 -- Over 6900 Wells Completed

TEL BR 9-2460 - 2461

COMPLETE INSTALLATION, REPLACEMENT AND REPAIR SERVICE

March 11, 1981

Vails Grove Co-op
Route 121, RFD #2
Brewster, N.Y. 10509

Att: Mr. Myers:

To Whom It May Concern:

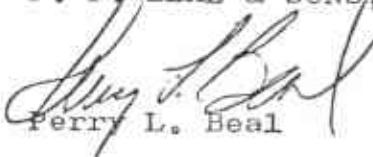
Please be advised that on March 6, 1981 we checked the static water level (the distance from the surface of the ground to the water level in the well) in each of the three wells for Vails Grove Co-op, Route 121, Brewster, N. Y.

The water levels were as follows:

Well # 1	22'	PL 2063	P 1119
Well # 2	10'	PL 2064	P 1120
Well # 3	5'	PL 2065	P 1121

Very truly yours,

P. F. BEAL & SONS, INC.



Perry L. Beal

PLB:pr